

# Product Environmental Profile

## ERIE VT 3WAY PopTop ZONE VALVE

### Erie Zone Valve





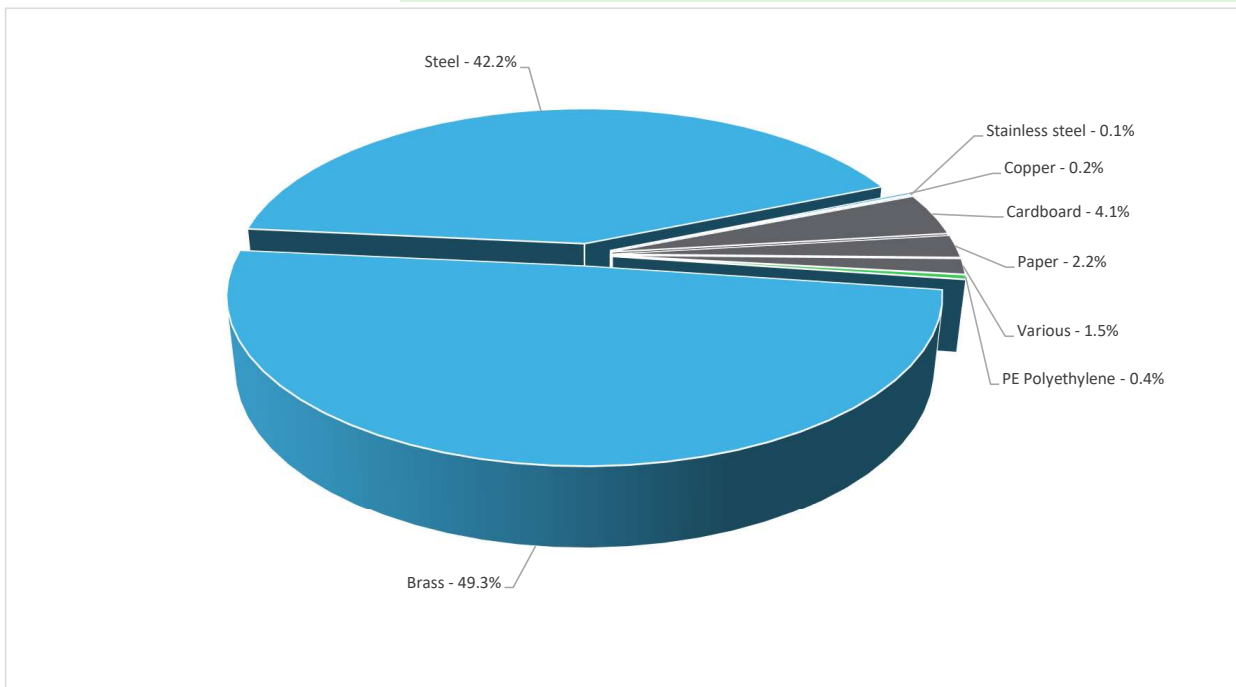
## General information

Reference product	ERIE VT 3WAY PopTop ZONE VALVE - VT3343
Description of the product	The Erie VT3343 zone valve is a 3/4 inch, 3-way mixing/diverting valve made of brass, designed for use in HVAC systems. It features a flare connection and a flow coefficient (Cv) of 4, with an Erie PopTop actuator. This valve is suitable for controlling the flow of hot or chilled water and glycol mixtures (up to 50%), but it is not compatible with steam. Its primary function is to regulate the flow of these media in heating and cooling applications, ensuring efficient temperature control within the system.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Related Products in the range	VT3211 VT3212 VT3213 VT3221 VT3222 VT3223 VT3232 VT3253 VT3312 VT3313 VT3315 VT3317 VT3322 VT3323 VT3325 VT3327 VT3332 VT3335 VT3337 VT3341 VT3342 VT3413 VT3415 VT3417 VT3427 VT3437 VT3517
Functional unit	For Schneider Electric VT3343 zone valve, to ensure efficient and reliable control of heating and cooling systems in residential and commercial settings by regulating the flow of water or glycol mixtures in HVAC systems with a flow coefficient (Cv) of 3.5. Operating within a temperature range of 32°F to 200°F (0°C to 93°C), for 20 years.
Specifications are:	For Schneider Electric VT3343 zone valve, to ensure efficient and reliable control of heating and cooling systems in residential and commercial settings in 20 years. <ul style="list-style-type: none"> <li>- Temperature Range Fluid: 32... 199 °F (0... 93 °C)</li> <li>- Stem Movement: Rotary</li> <li>- Pressure Allowable Static: 400 psi</li> <li>- Media Compatibility: Glycol 25 % Glycol 30 % Glycol 50 %</li> <li>- Flow Coefficient: 3.46 kvs</li> <li>- Connection Type: Flare</li> <li>- Configuration: 3-Way Mixing/Diverting</li> </ul>



## Constituent materials

Reference product mass 471.736 g including the product, its packaging, additional elements and accessories



Plastics	0.4%
Metals	91.8%
Others	7.8%



## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website <https://www.se.com>

## Additional environmental information

<b>End Of Life</b>	Recyclability potential:	<b>96%</b>	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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## Environmental impacts

<b>Reference service life time</b>	20 years			
<b>Product category</b>	No PSR			
<b>Life cycle of the product</b>	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
<b>Electricity consumption</b>	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
<b>Installation elements</b>	The product does not require any installation operations			
<b>Use scenario</b>	The Erie VT3 Valves are fully mechanical finished products without power consumption in 20 years.			
<b>Time representativeness</b>	The collected data are representative of the year 2025			
<b>Technological representativeness</b>	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.			
<b>Geographical representativeness</b>	<b>Final assembly site</b>	<b>Use phase</b>		<b>End-of-life</b>
	Monterrey, Mexico	North America		North America
	[A1 - A3]	[A5]	[B6]	[C1 - C4]
<b>Energy model used</b>	Electricity Mix; Low voltage; 2020; Mexico, MX	No energy used	Electricity Mix; Low voltage; 2020; United States, US	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		ERIE VT 3WAY PopTop ZONE VALVE - VT3343							
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads	
Contribution to climate change	kg CO2 eq	3.95E+00	2.56E+00	8.92E-02	2.86E-03	0*	1.30E+00	-1.88E+00	
Contribution to climate change-fossil	kg CO2 eq	3.89E+00	2.50E+00	8.92E-02	1.18E-03	0*	1.30E+00	-1.88E+00	
Contribution to climate change-biogenic	kg CO2 eq	5.56E-02	5.38E-02	0*	1.68E-03	0*	1.19E-04	-4.37E-03	
Contribution to climate change-land use and land use change	kg CO2 eq	2.31E-07	2.29E-07	0*	0*	0*	2.00E-09	0.00E+00	
Contribution to ozone depletion	kg CFC-11 eq	4.84E-07	4.83E-07	1.37E-10	0*	0*	2.51E-10	-4.57E-07	
Contribution to acidification	mol H+ eq	5.28E-02	4.76E-02	5.64E-04	1.53E-05	0*	4.56E-03	-1.07E-02	
Contribution to eutrophication, freshwater	kg P eq	2.69E-04	2.64E-04	3.34E-08	0*	0*	4.92E-06	-4.58E-06	
Contribution to eutrophication, marine	kg N eq	4.43E-03	3.19E-03	2.65E-04	7.26E-06	0*	9.66E-04	-1.05E-03	
Contribution to eutrophication, terrestrial	mol N eq	4.92E-02	3.57E-02	2.90E-03	7.44E-05	0*	1.05E-02	-1.20E-02	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.68E-02	1.25E-02	7.32E-04	1.78E-05	0*	3.57E-03	-4.43E-03	
Contribution to resource use, minerals and metals	kg Sb eq	5.84E-04	5.84E-04	0*	0*	0*	1.58E-07	-4.02E-04	
Contribution to resource use, fossils	MJ	1.45E+02	5.29E+01	1.24E+00	0*	0*	9.08E+01	-3.28E+01	
Contribution to water use	m3 eq	1.95E+00	1.48E+00	3.38E-04	2.85E-03	0*	4.69E-01	-8.08E-01	

Inventory flows Indicators		ERIE VT 3WAY PopTop ZONE VALVE - VT3343						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	1.27E+00	1.26E+00	1.66E-03	0*	0*	4.77E-03	-2.45E-01
Contribution to renewable primary energy used as raw material	MJ	5.57E-01	5.57E-01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	1.82E+00	1.82E+00	1.66E-03	0*	0*	4.77E-03	-2.45E-01
Contribution to non renewable primary energy used as energy	MJ	1.44E+02	5.24E+01	1.24E+00	0*	0*	9.08E+01	-3.28E+01
Contribution to non renewable primary energy used as raw material	MJ	4.64E-01	4.64E-01	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	1.45E+02	5.29E+01	1.24E+00	0*	0*	9.08E+01	-3.28E+01
Contribution to use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of fresh water	m³	4.54E-02	3.44E-02	7.88E-06	6.65E-05	0*	1.09E-02	-1.88E-02
Contribution to hazardous waste disposed	kg	4.47E+01	4.47E+01	0*	0*	0*	0*	-3.07E+01
Contribution to non hazardous waste disposed	kg	1.43E+00	1.38E+00	3.13E-03	3.02E-02	0*	2.25E-02	-1.01E+00
Contribution to radioactive waste disposed	kg	4.15E-04	4.10E-04	2.23E-06	0*	0*	3.05E-06	-4.63E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.93E-01	6.42E-02	0*	0*	0*	4.28E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	4.88E-03	6.44E-04	0*	0*	0*	4.24E-03	0.00E+00

\* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product kg of C 0.00E+00

Contribution to biogenic carbon content of the associated packaging kg of C 9.45E-03

\* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		ERIE VT 3WAY PopTop ZONE VALVE - VT3343								
Impact Indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to ozone depletion	kg CFC-11 eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to eutrophication, freshwater	kg P eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*	
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*	

Inventory flows Indicators		ERIE VT 3WAY PopTop ZONE VALVE - VT3343							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	ENVPEP2504011_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	27/03/2025	Supplemented by	No PSR
		Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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